

Claims

1. Method for processing tires and the manufacture of products composed of the tire material,

characterized in that

the tires are dismembered by a sequence of cuts in such a way that the two side walls are separated from the running tread and the rings arising are combined together to new products.

2. Method according to claim 1,

characterized in that

combination of the rings is by an interweaving process.

3. Method according to claim 1,

characterized in that

the new products are interwoven mesh surface structures or bodies.

4. Method according to claim 3,

characterized in that

th interwoven mesh surface structures are mats or aligned units and the bodies are three-dimensional blocks or hollow bodies.

5. Method according to claim 1,

characterized in that

5 narrower rings of equal diameter are generated from further cuts along the circumference of the ring produced from the running tread.

6. Method according to claim 1,

characterized in that

10 narrower rings of varying diameter are generated from further cuts along the circumference of the ring produced from the side walls.

7. Method according to at least of one of the claims 1 to 6,

15 characterized in that

production of the individual rings is carried out by means of permanently installed cutting facilities or by means of mobile cutting facilities.

20 8. Method according to claim 7,

characterized in that

25 the tires are cut with a single cut along the middle of the running tread in such a way that two U-shaped tire parts result which can be stacked inside each other for the purpose of their transportation to the permanent cutting facilities.

9. Method according to claim 1,

characterized in that

the rubber is kept under tension during the process of cutting.

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10. Device for the cutting of tires in the course of which the tires are cut up into slices,

characterized in that

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the tire (3) is fixed inside a holding facility (4) and rotated by a drive roller (5) which produces an internal swelling (7) and where at least one cutting blade (8) arranged on a shaft (6) cuts through the running tread (1) of the tire (3) from the inside at the swelling (7).

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11. Device according to claim 10,

characterized in that

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several cutters (8) are located at variably adjustable distances to each other on the shaft (6) depending on the number of rings desired.

12. Device according to claim 10,

characterized in that

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stabilization of the cutting process is achieved by clamping the wheel-rim beading.

13. Block, hollow body, mat or aligned units consist of interwoven rings from cut up tires.

5 14. Block, hollow body, mat or aligned units according to claim 13,

characterized in that

10 for the purpose of interweaving the rings, the initial ring is pressed together in such a way that approximately equal size loops are formed to the left and right and that a further ring is fed through both of these loops such that the ring fed through forms two further loops.

15 15. Block, hollow body, mat or aligned units according to claim 14,

characterized in that

the external ring and/or end ring is prevented from opening by means of fixation.

20 16. Block, hollow body, mat or aligned units according to claim 13,

characterized in that

the interweaving is carried out manually or by a machine.

17. Block, hollow body, mat or aligned units according to claim 16,

characterized in that

the interweaving process for blocks mats or aligned units is carried out at the place of deployment.

18. The use of mats, hollow bodies, blocks or aligned units produced by interweaving rings for the construction of dam reinforcement and/or bank protection measures and/or treatment of the beds of bodies of water and/or artificial dams and/or protective measures on reefs and coral banks and/or fish breeding measures and/or recovery measures in sluice locks or pools and/or protective measures against breaking through ice sheets and/or wave protection measures and/or collision protective measures close to building structures and/or filtration or cleaning functions and/or earth consolidation and/or plant protective measures and/or avalanche or falling rock protective measures and/or substrate consolidation in foundations, roads and open spaces and/or cable or pipe shafts and/or explosion protective elements and/or shelters and/or traffic guidance elements and/or tree protective measures and/or drainage functions and/or demarcations and/or load redistribution elements and or silage covers and/or landfill demarcations and or fire mats and/or roadway marking and/or agricultural areas.